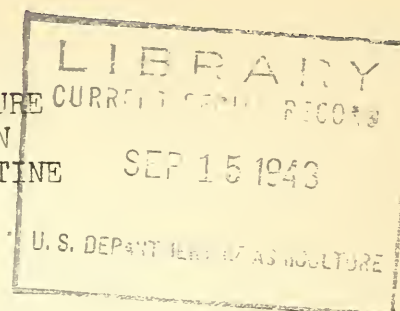


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En 831BUNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH ADMINISTRATION
BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

I N S E C T P E S T S U R V E Y

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HESSIAN FLY SURVEY AT HARVESTTIME 1943

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Field surveys made by the Bureau of Entomology and Plant Quarantine at Sacramento, Calif.; Manhattan, Kans.; Lafayette, Ind.; and Beltsville, Md., and by the State Agricultural Experiment Stations or agencies of Nebraska, Oklahoma, Iowa, Missouri, Illinois, Ohio, New York, and Pennsylvania indicate that hessian fly infestations are low throughout the winter Wheat Belt with exceptions of moderate to heavy infestations in the Sacramento Valley and south-central coastal counties of California, south-central and southeastern Nebraska, north-central, south-central, and northeastern Kansas, east-central Kentucky, western New York, eastern Pennsylvania, New Jersey, western South Carolina, and northeastern Georgia. The surveys show, however, that there are menacing populations of hessian flies in local fields and areas in all of the winter Wheat Belt States. For this reason, and because of the war-time need of utilizing every available means of increasing the wheat crop, it is advisable to continue to observe the safe-seeding dates and recommended controls for the fly rather than to hazard the chance of a rapid multiplication of the fly during the season with resultant widespread injury to the 1944 wheat crop.

The data summarized in the following table, and the accompanying map, indicate more fully the regions covered by the survey and the general trend of fly infestations. A field sample in the survey usually consisted of 50 wheat stems.

Hessian fly survey at harvesttime 1943

Area	Fields :	Stems infested		
	sampled:	Average :	Maximum :	Minimum
	Number :	Percent :	Percent :	Percent
California -----	60 :	24.8 :	100 :	0
Colorado:	:	:	:	:
Northeastern -----	18 :	2.3 :	16 :	0
Nebraska: <u>1</u> /	:	:	:	:
Northern -----	43 :	.14 :	- :	-
Southwestern -----	32 :	2.8 :	16 :	0
South-central -----	23 :	8.3 :	22 :	0
Southeastern -----	73 :	8.1 :	- :	-
Kansas:	:	:	:	:
Western -----	66 :	1.7 :	30 :	0
North-central -----	84 :	9.2 :	46 :	0
South-central -----	57 :	8.1 :	46 :	0
Northeastern -----	99 :	12.1 :	74 :	0
Southeastern -----	57 :	3.5 :	30 :	0
Oklahoma: <u>1</u> /	:	:	:	:
Northern -----	121 :	3.7 :	28 :	0
Iowa <u>1</u> /-----	81 :	1.4 :	16 :	0
Missouri <u>1</u> /-----	357 :	4.0 :	78 :	0
Arkansas:	:	:	:	:
Northern -----	27 :	3.3 :	32 :	0
Illinois <u>1</u> /-----	181 :	2.4 :	40 :	0
Michigan:	:	:	:	:
Southern -----	90 :	3.0 :	44 :	0
Indiana -----	460 :	5.1 :	70 :	0
Ohio <u>1</u> /-----	298 :	4.3 :	62 :	0

Hessian fly survey at harvesttime 1943--Continued.

Area	Fields sampled: Number	Stems infested		
		Average Percent	Maximum Percent	Minimum Percent
Kentucky: ^{1/}				
Western -----	26	4.5	12	0
East-central -----	21	11.1	40	0
Tennessee:				
West-central -----	62	4.4	34	0
Eastern -----	59	1.7	18	0
New York: ^{1/}				
Western -----	48	9.0	62	0
Pennsylvania: ^{1/}				
Western -----	57	6.0	48	0
Eastern -----	140	9.0	80	0
New Jersey -----	22	13.0	48	0
Delaware -----	15	5.0	30	0
Maryland -----	58	7.0	30	0
West Virginia:				
Northern -----	14	3.3	20	0
Virginia -----	151	4.0	80	0
North Carolina:				
Central -----	92	4.0	24	0
South Carolina:				
Western -----	40	8.0	44	0
Georgia:				
Northeastern -----	40	9.0	56	0

^{1/} In cooperation with State entomologists.

HESSIAN FLY SURVEY AT HARVESTTIME 1943

Numbers indicate percentage of stems infested. Cross-hatching indicates from moderate to heavy infestation.

